



New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

www.newguardcoatings.com

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

Technical sheet : RD-Elastometal

Description of the product

USE:

High performance elastomeric coating combining superior anti-corrosion and waterproofing properties.

FEATURES:

Single component water-based coating based on special resins for the protection of metal surfaces, objects and metallic roofs against corrosion and weathering. RD-Elastometal, often considered as a "Direct-To-Rusty-Metal" coating, can be applied directly to rusty surfaces if loose rust has been removed. As a Dry Fall coating, any overspray can easily be removed after spraying.

RD-Elastometal is water-based, easy to handle, safe and has no fire risks.

It is a fast-drying coating system that greatly reduces downtime during installation.

Virtually odour free, it does not affect neighbouring occupants and can therefore be used in occupied buildings.

RD-Elastometal is UV resistant and is meant to be applied as primer and finishing coat.

Its permanent 200% elasticity enables it to adhere even on flexible surfaces such as metallic roofs, suspension cables, long beams etc. Tested to be used in the most severe environments, RD-Elastometal protects millions of square meters of valuable assets worldwide 24/7 including bridges, telecom towers, gantries, tanks, etc.

RD-Elastometal is part of the SCS – Single Coating System - product group.

SUBSTRATES:

Steel, weathered galvanized steel > 1 year

Systems

Steel located in aggressive marine & industrial environments – C5		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Elastometal	307 / 12,3	175 / 7	0,4 kg / 130	High lifespan > 15 years (contact us for durability > 25 years)
Finish	RD-Elastometal	307 / 12,3	175 / 7	0,4 kg / 130	
TOTAL			350 / 14	0,8 kg / 65	

Other option: On objects for which aesthetics are highly important, the second coat of RD-Elastometal can be replaced by one coat of RD-Monoguard which offers a semi-gloss enamel type of finish.

Primer	RD-Elastometal	386 / 15,4	220 / 8,8	0,48 kg / 106	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			250 / 10		

Steel located in aggressive marine & industrial environments – C4		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Elastometal	315 / 13	175 / 7	0,40 kg / 130	Very High lifespan > 25 years
Finish	RD-Elastometal	315 / 13	175 / 7	0,40 kg / 130	
TOTAL			350 / 14	0,80 kg / 65	
Other option:					
Primer	RD-Elastometal	263 / 10,5	150 / 6	0,33 kg / 155	High lifespan > 15 years
Finish	RD-Elastometal	263 / 10,5	150 / 6	0,33 kg / 155	
TOTAL			300 / 12	0,66 kg / 76	

Other option: On objects for which aesthetics are highly important, the second coat of RD-Elastometal can be replaced by one coat of RD-Monoguard which offers a semi-gloss enamel type of finish.

Primer	RD-Elastometal	315 / 13	175 / 7	0,4 kg / 130	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			255 / 10,2		

Steel located in moderate environments – C3		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Elastometal	270 / 11	150 / 6	0,35 kg / 152	Very High lifespan > 25 years
Finish	RD-Elastometal	270 / 11	150 / 6	0,35 kg / 152	
TOTAL			300 / 12	0,70 kg / 76	
Other option:					
Primer	RD-Elastometal	193 / 7,7	110 / 4,4	0,24 kg / 211	High lifespan > 15 years
Finish	RD-Elastometal	193 / 7,7	110 / 4,4	0,24 kg / 211	
TOTAL			220 / 8,8	0,48 kg / 105	

Other option: On objects for which aesthetics are highly important, the second coat of RD-Elastometal can be replaced by one coat of RD-Monoguard which offers a semi-gloss enamel type of finish.

Primer	RD-Elastometal	214 / 8,5	120 / 4,8	0,27 kg / 190	High lifespan > 15 years
Finish	RD-Monoguard	186 / 7,4	80 / 3,2	0,19 l / 219	
TOTAL			200 / 8		

Metallic roofs with a slope > 4%		Wet film thickness in microns / mils	Dry film thickness in microns / mils	Consumption per m ² / ft ² per gallon	Comments
Primer	RD-Elastometal	315 / 13	175 / 7	0,40 kg / 130	High lifespan > 15 years
Finish	RD-Elastometal (*)	315 / 13	175 / 7	0,40 kg / 130	
TOTAL			350 / 14	0,80 kg / 65	
Areas with stagnating water:					
Primer	RD-Elastometal + RD-Roof Fleece	315 / 13	175 / 7	0,40 kg / 130	
Finish	RD-Elastometal	940 / 38	525 / 21	1,10 kg / 43	
TOTAL			700 / 28	1,50 kg / 32	

Roofs with risks of stagnating water:

Apply a total quantity of 1,5 kg/m² / 32 ft²/gal. of RD-Elastometal and use RD-Roof Fleece in the first layer. See our detailed user manual on www.rd-coatings.com

Risks of chemical spills or graffiti:

The system can be top coated by one or two coats of RD-Hydrograff HP Clear High Gloss.

Indicated consumption is theoretical and does not consider potential losses during application. It can also be influenced by the porosity of the substrate.

Application instructions

APPLICATION CONDITIONS:

Ambient temperature: minimum 5°C (41°F) – optimal between 12 and 25°C (54 and 77°F).
Relative humidity: maximum 80%
Surface temperature must be minimum 3°C (5°F) above dew point.

APPLICATION MEANS:

Brush, roller or airless (nozzle size: 015–023)
Application by airless is recommended and makes it easier to reach the recommended thicknesses. Use a device that allows a minimum pressure of 180 bar / 2600 psi at the outlet.

PREPARATION OF THE SUBSTRATE:

The substrate must be clean: dry, degreased and dust free. Non adhering elements such as older coatings or rust must be removed. Different type of surface preparation are possible:

- 1/ Remove rust manually or by power tool to ST2 – ISO 8501-1/SSPC SP2 or SP3.
- 2/ Blasting to SA 2½ - ISO 8501-1/NACE3/SSPC SP6.
- 3/ High pressure washing following SSPC SP12 WJ4.

Contact your RD Coatings representative in case of hesitation

DILUTION:

Product is ready-for-use. Dilute with maximum 3% water when applying by airless or in warm weather conditions (> 25°C / > 77°F).
On aluminum: dilute the first coat of RD-Elastometal with 25% water.

DRYING TIME (20°C - 68°F):

Touch dry: +/- 3 hours
Recoatable: +/- 6 hours

CLEANING OF TOOLS:

Water

SPECIFICITIES:

Mix well before use.

Technical data

FINISH (Gardner 60°):

Satin – 15%+/- 5

COLOURS:

Stock colours: white, aluminium.
RAL, NCS and bespoke colours. Available on RD Coatings dispensing system.

DENSITY:

1.25 +/- 0.05 g/cm³

SOLIDS CONTENT:

In weight: 64-66 %
In volume: 55-57 %

VISCOSITY:

180 - 250 P (Brookfield 20RPM)

VOC CONTENT:

< 8 g/l

FLASH POINT:

Not flammable

STORAGE:

24 months, keep away from frost and store away from heat.

Norms and tests

SALT SPRAY	ISO 12944 / ASTM B117 / ISO 4628
ADHESION PULL-OFF TEST	ISO 4624
KESTERNICH TEST	ISO 3231
ADHESION X-CROSS CUT	ISO 2409
RESISTANCE TO MOISTURE	ISO 4628
WATER RESISTANCE	ASTM D970
ABRASION RESISTANCE TABER	ASTM D4060
ABRASION RESISTANCE	ASTM D968
PENCIL HARDNESS	ASTM D3363
PENDULUM HARDNESS	ISO 1522
CHEMICAL RESISTANCE	ISO 2812
FLEXIBILITY	ASTM D522
IMPACT RESISTANCE	SANS 5146 / ASTM D2794
QUV TEST	ASTM D4587 / ASTM G53
RESISTANCE TO HIGH TEMPERATURE	ASTM D2485
WATER VAPOR TRANSMISSION	ASTM D1653
SURFACE FLAMMABILITY	ASTM E84-03
OVERALL MIGRATION	EN 1186
ENCAPSULATION OF LEADED PAINT	ASTM E 1795

Safety data

Information related to hygiene and to safety can be found in the Safety Data Sheet available on request.

These specifications are given for information. Since the manufacturer is not able to check the application of the products, he cannot accept any responsibility for it. This technical data sheet replaces all previous editions.

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